

341 Items Description  
 51 111 GROWTH W FACTOR W INDEPENDENCE  
 51 43 51 AND GFI-1 OR GFI W 1  
 51 13 51 AND REPRESSOR  
 51 10 51 S REPRESSOR  
 51 8 51 S4 unique items  
 51 2 51 AND MUTATED OR MUTATION OR MUTATE

1. 5/K/1-2

SHOWWIL option is not available in file s : 399

5/K/1 Item 1 from file: 51

DIALOG(R)File 51: 1992 BIOSIS. All rts. reserv.

...ABSTRACT: Gfi1 gene encodes a zinc finger protein which acts as a  
 transcriptional repressor and confers **growth factor**  
**independence** on tumor cells, as suggested by the study of its mouse  
 ortholog, Gfi1. We previously...

5/K/2 Item 1 from file: 155

DIALOG(R)File 155:

...sufficient to mediate IL-4-driven cell expansion. We report that  
 growth factor independent-1 (**Gfi-1**), a Stat6-dependent  
 transcriptional **repressor**, strikingly increases Th2 cell expansion by  
 promoting proliferation and preventing apoptosis. Cells infected with a  
**Gfi-1** retrovirus show striking enhancement of IL-2-induced  
 Stat5 phosphorylation and repression of p27(Kip-1) expression, suggesting a  
 potential mechanism for the **Gfi-1** growth effect. The synergy of  
**Gfi-1** and Gata3 provides a mechanism through which IL-4 could  
 selectively promote Th2 cell expansion.

5/K/3 Item 2 from file: 155

DIALOG(R)File 155:

**Gfi-1** is a nuclear zinc finger protein with the activity of a  
 transcriptional **repressor** and the ability to predispose for the  
 development of T-cell lymphoma when expressed constitutively at high  
 levels. Whereas thymic T-cell precursors express endogenous **Gfi-1**,  
 mature peripheral T-cells lack **Gfi-1** but upregulate  
 its expression transiently after antigenic stimulation and activation of  
 Erk1/2 demonstrating a role of **Gfi-1** in T-cell activation. Here  
 we show that constitutive expression of **Gfi-1** accelerates S  
 phase entry of primary, resting T-cells upon antigenic stimulation. In  
 addition, high level **Gfi-1** expression inhibits phorbol ester  
 induced G1 arrest and activation induced cell death in Jurkat T-cells. We  
 demonstrate that these effects of **Gfi-1** occur with lower  
 absolute levels and hyperphosphorylation of the pocket protein pRb.  
 Moreover, phorbol ester...

...expression of the negative cell cycle regulator p21(WAF1) is blocked in  
 the presence of **Gfi-1**. These findings suggest that **Gfi-1**  
 contributes to T-cell lymphomagenesis by overriding a late G1 cell  
 cycle checkpoint which controls...

5/K/4 Item 3 from file: 155

DIALOG(R)File 155:

**Gfi-1** was first cloned from rat, and subsequently in mouse,  
 chicken, and human, and was found...

... protein that bound to DNA in a sequence-specific manner to act as a transcriptional **repressor** and proto-oncogene. Using PCR, a **Gfi-1** homologous cDNA, mdGfi-1, was cloned from the house fly, *Musca domestica*. Comparison of the...

... these amino acids are 100% identical for all six domains for all species. Given that **Gfi-1** is highly conserved from insects to vertebrates suggests this may be an important transcription factor...

B/K/1 (Item 4 from file: 155)  
DIALOG(R) File 155:

Identification of a novel member of the snail/**Gfi-1** **repressor** family, mit-1, which is methylated and silenced in liver tumors of SV40 T antigen...

B/K/2 (Item 5 from file: 155)  
DIALOG(R) File 155:

for the protein deduced from chGfi. The chGfi protein is most homologous to the rat **Gfi-1** showing a sequence similarity of 92% over the EF region and only two exchanges within the N terminal 10 aa that constitute the **Gfi-1 repressor** domain. Expression of chGfi is only detected in transformed primary erythroblasts, in erythroid cells of...

B/K/3 (Item 6 from file: 155)  
DIALOG(R) File 155:

The **Gfi-1** proto-oncogene encodes a nuclear zinc-finger protein that carries a novel **repressor** domain, SNAG, and functions as a position- and orientation-independent active transcriptional **repressor**. The **Gfi-1 repressor** allows interleukin 2 (IL-2)-dependent T cells to escape G1 arrest induced by IL...

... for the induction of retrovirus-induced lymphomas in animals. Here we show that overexpression of **Gfi-1** also inhibits cell death induced by cultivation of IL-2-dependent T-cell lines in IL-2-deficient media. Similarly, induction of **Gfi-1** in primary thymocytes from mice carrying a metal-inducible **Gfi-1** transgene inhibits cell death induced by cultivation in vitro. The protein and mRNA levels of the proapoptotic regulator Bax are down-regulated by **Gfi-1** in both immortalized T-cell lines and primary transgenic thymocytes. The repression is direct and depends on several **Gfi-1**-binding sites in the pB-inducible Bax promoter. In addition to Bax, **Gfi-1** also represses Bak, another apoptosis-promoting member of the Bcl-2 gene family. Therefore, **Gfi-1** may inhibit apoptosis by means of its repression of multiple proapoptotic regulators. The antiapoptotic properties of **Gfi-1** provide a potential explanation for its strong collaboration with c-myc during oncogenesis.

B/K/4 (Item 7 from file: 155)  
DIALOG(R) File 155:

The **Gfi-1** proto-oncogene encodes a novel transcriptional **repressor** domain, SNAG, and inhibits G1 arrest induced by interleukin-2 withdrawal.

The **Gfi-1** proto-oncogene is activated by provirus insertion in T-cell lymphoma lines selected for interleukin...

... induced thymomas and encodes a nuclear, sequence-specific DNA-binding protein. Here we show that **Gfi-1** is a position- and orientation-independent active transcriptional **repressor**, whose activity depends on a 20-amino-acid N-terminal **repressor** domain, coincident with a nuclear localization motif. The sequence of the **Gfi-1 repressor** domain is related to the sequence of the **repressor** domain of Gfi-1B, a **Gfi-1**-related protein, and to sequences at the N-termini of the insulinoma-associated protein, IA...

... and the vertebrate but not the Drosophila members of the Snail-Slug protein family. **Gfi-1**, SNAG domain. Although not functionally characterized, these SNAG-related sequences are also likely to mediate transcriptional repression. Therefore, the **Gfi-1** SNAG domain may be the prototype of a novel family of evolutionarily conserved **repressor** domains that operate in multiple cell lineages. **Gfi-1** overexpression in IL-2-dependent T-cell lines allows the cells to escape from the...

... withdrawal. Since a single point mutation in the SNAG domain (P2A) inhibits both the **Gfi-1**-mediated transcriptional repression and the G1 arrest induced by IL-2 starvation, we conclude that the latter depends on the **repressor** activity of the SNAG domain. Induction of **Gfi-1** may therefore contribute to T-cell activation and tumor progression by repressing the expression of...

5 K 2 (Item 3 from file: 155)  
DIALOG(R) File 155:

**Gfi-1** encodes a nuclear zinc finger protein that binds DNA and functions as a transcriptional **repressor**.

? t s6/k/1-2

>>>KWIC option is not available in file(s): 399

6 K/1 (Item 1 from file: 155)  
DIALOG(R) File 155:

The **Gfi-1** proto-oncogene contains a novel transcriptional **repressor** domain, SNAG, and inhibits G1 arrest induced by interleukin-2 withdrawal.

The **Gfi-1** proto-oncogene is activated by provirus insertion in T-cell lymphoma lines selected for interleukin...

... induced thymomas and encodes a nuclear, sequence-specific DNA-binding protein. Here we show that **Gfi-1** is a position- and orientation-independent active transcriptional **repressor**, whose activity depends on a 20-amino-acid N-terminal **repressor** domain, coincident with a nuclear localization motif. The sequence of the **Gfi-1 repressor** domain is related to the sequence of the **repressor** domain of Gfi-1B, a **Gfi-1**-related protein, and to sequences at the N-termini of the insulinoma-associated protein, IA...

... and the vertebrate but not the Drosophila members of the Snail-Slug protein family. **Gfi-1**, SNAG domain. Although not functionally characterized, these SNAG-related sequences are also likely to mediate transcriptional repression. Therefore, the **Gfi-1** SNAG domain may be the prototype of a novel family of evolutionarily conserved **repressor** domains that operate in multiple cell lineages. **Gfi-1** overexpression in IL-2-dependent T-cell lines allows the cells to escape from the G1 arrest induced by IL-2 withdrawal. Since a single point mutation in the SNAG domain (P2A) inhibits both the **Gfi-1** transcriptional repression and the G1 arrest induced by IL-2 starvation, we conclude that the latter depends on the **repressor** activity of the SNAG domain. Induction of **Gfi-1** may therefore

contribute to T-cell activation and tumor progression by repressing the expression of...

5/3/1 (Item 1 from file: 155)  
BIALOGS File 155: Biosis

Gfi-1 encodes a nuclear zinc finger protein that binds DNA and functions as a transcriptional repressor.

... into NIH 3T3 fibroblasts, were repressed by Gfi-1, and the repression was abrogated by mutation of critical residues in the two Gfi-1 binding sites. These results suggest that Gfi-1...  
? to s medium 1-4

5/3/1 (Item 1 from file: 5)  
BIALOGS File 5: Biosis Previews R  
to 1000 Biosis. All its. reserv.

12560971 BIOSIS NO.: 20000314473  
Cloning and characterization of the TATA-less promoter from the human Gfi1 proto-oncogene.

AUTHOR: Liu S; Cowell J K

Address: AIPRESS: La Center for Molecular Genetics, NB20, Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH, 44195 USA

JOURNAL: Annals of Human Genetics 64 (1):p83-86 January, 2000

MEDIUM: print

ISSN: 0003-4800

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

5/3/2 (Item 1 from file: 155)  
BIALOGS File 155: MEDLINE(R)

13284119 12045300 PMID: 12049724

Growth factor independent-1 induced by IL-4 regulates Th2 cell proliferation.

Zhu Jinfang; Guo Liying; Min Boeki; Watson Cynthia J; Hu-Li Jane; Young Howard A; Tsichlis Philip N; Paul William E

Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD 20892, USA.  
jinfzhu@niaid.nih.gov

Immunity (United States) May 2002, 16 (5) p733-44, ISSN 1074-7613

Journal Code: 9432918

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

5/3/3 (Item 2 from file: 155)  
BIALOGS File 155: MEDLINE(R)

13114311 Abstract PMID: 11546541

High levels of the oncoprotein Gfi-1 accelerate T-cell proliferation and inhibit activation-induced T-cell death in murine T-cells.

Kanungo S; Lee M; Mink L; Smith Thoreen; Murty Tarik

Institute for Cell Biology, The Rockefeller University, 1230 York Avenue, New York, NY 10021, USA.

Immunology (United States) May 2002, 16 (5) p733-44, ISSN 1074-7613

Journal Code: 9432918

Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

5/3/4 (Item 3 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

111161 111161 PMID: 113411  
A house fly gene homologous to the zinc finger proto-oncogene Gfi-1.  
Masai S; Scott F G  
Department of Entomology, Comstock Hall, Cornell University, Ithaca, New York, 14853-1501, USA.  
Biochemical and biophysical research communications (United States) May 11 2001, 283 (3) p644-7, ISSN 0006-291X Journal Code: 0372816  
Contract Grant No.: GM47800; GM; NIGMS  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

5/3/5 (Item 4 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

11117067 11118882 PMID: 11221840  
Identification of a novel member of the snail/Gfi-1 repressor family, mit-1, which is methylated and silenced in liver tumors of SV40 antigen transgenic mice.  
Tateno M; Fukunishi Y; Komatsu S; Okazaki Y; Kawai C; Shibata K; Itoh M; Muramatsu M; Held W A; Hayashiraki Y  
CREST, Japan Science and Technology Corporation and Genome Science Laboratory, RIKEN Tsukuba Institute, Ibaraki.  
Cancer research (United States) Feb 1 2001, 61 (3) p1144-53, ISSN 0008-5472 Journal Code: 2004700R  
Contract/Grant No.: JP00CA16036; CA; NCI; CA65612; CA; NCI  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

5/3/6 (Item 5 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

09524808 97449304 PMID: 9305773  
Structure and erythroid cell-restricted expression of a chicken cDNA encoding a novel zinc finger protein of the Cys + His class.  
Fuchs B; Wagner T; Ressel N; Antoine M; Beng H; Niessing J  
Institut für Molekularbiologie und Tumorforschung der Philipps-Universität, Marburg, Germany.  
Gene (Netherlands) Aug 22 1997, 195 (2) p277-84, ISSN 0378-1119  
Journal Code: 0005761  
Erratum in Gene 1998 Jan 3;216(1) 151  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

5/3/7 (Item 6 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

004440 87042486 PMID: 8887656

The **Gfi-1** proto-oncogene protein represses Pax expression and inhibits T-cell death.

Grimes H L; Gilks C B; Chan T O; Porter S; Tsichlis P N

Fox Chase Cancer Center, Philadelphia, PA 19111, USA.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Dec 10 1996, 93 (25) p14869-73, ISSN 0027-4844, Journal Code: 7818697

Contract/Grant No.: CA06927; CA; NCI; CA56110; CA; NCI; CA59302; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

5/3/97 Item 7 from file: 1881

004440 R File 1881:MEDLINE.R

00138874 87042486 PMID: 8887656

The **Gfi-1** proto-oncogene protein contains a novel transcriptional **repressor** domain, SNAG, and inhibits G1 arrest induced by interleukin-2 withdrawal.

Grimes H L; Chan T O; Zweidler-McKay P A; Tong B; Tsichlis P N

Fox Chase Cancer Center, Philadelphia, Pennsylvania 19111, USA.

Molecular and cellular biology (UNITED STATES) Nov 1996, 16 (11) p4024-34, ISSN 0270-7306 Journal Code: 8109087

Contract/Grant No.: CA06927; CA; NCI; CA56110; CA; NCI; CA59302; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

5/3/97 Item 8 from file: 1881

004440 R File 1881:V-MEDLINE.R

00000414 00013620 PMID: 8734800

**Gfi-1** encodes a nuclear zinc finger protein that binds DNA and functions as a transcriptional **repressor**.

Zweidler-McKay P A; Grimes H L; Flubacher M M; Tsichlis P N

Fox Chase Cancer Center, Philadelphia, Pennsylvania 19111, USA.

Molecular and cellular biology (UNITED STATES) Aug 1996, 16 (8) p4024-34, ISSN 0270-7306 Journal Code: 8109087

Contract/Grant No.: CA06927; CA; NCI; CA56110; CA; NCI; CA59302; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

1/1/96 medline-2

6/3/97 Item 1 from file: 1881

004440 R File 1881:MEDLINE.R

00138874 87042486 PMID: 8887656

The **Gfi-1** proto-oncogene protein contains a novel transcriptional **repressor** domain, SNAG, and inhibits G1 arrest induced by interleukin-2 withdrawal.

Grimes H L; Chan T O; Zweidler-McKay P A; Tong B; Tsichlis P N

Fox Chase Cancer Center, Philadelphia, Pennsylvania 19111, USA.

Molecular and cellular biology (UNITED STATES) Nov 1996, 16 (11) p4024-34, ISSN 0270-7306 Journal Code: 8109087

Contract/Grant No.: CA06927; CA; NCI; CA56110; CA; NCI; CA59302; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM  
Record type: Completed

6 3 1 Item 1 from file: 185  
DIALOG B File 185:MEDLINE.B

16906414 26815626 PMID: 8754811

**Gfi-1** encodes a nuclear zinc finger protein that binds DNA and functions as a transcriptional **repressor**.

Dweidler-Mckay P A; Grimes H L; Flubacher M M; Tsichlis E N  
Fox Chase Cancer Center, Philadelphia, Pennsylvania 19111, USA.

Molecular and cellular biology [UNITED STATES] Aug 1996, 16 (8)  
p4024-34, ISSN 0270-7306 Journal Code: 8109187

Contract/Grant No.: CA06927; CA; NCI; CA56110; CA; NCI; CA59302; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed